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Handbook of Biomedical Plastics, Henry Lee and Kris Neville (Pasadena Technology Press, 443 Orange Grove Circle, Pasadena, CA 91105, $55.00, 600 pages, 1971).

Polyester Fibres: Chemistry and Technology, Herman Ludewig (Wiley-Interscience Division, John Wiley and Sons Inc., 605 Third Ave., New York, NY 10016, $19.20, 476 pages, 1971).

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Polymer Science and Materials, Arthur V. Tobolsky and Herman F. Mark, eds. (Wiley-Interscience a Div. of John Wiley & Sons, Inc., 605 Third Ave., New York, NY 10016, $13.95, 404 pages, 1971).

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Mechanical Performance and Design in Polymers, Oskar Delatycki, ed. (Wiley-Interscience Division, John Wiley and Sons, Inc., 605 Third Ave., New York, NY 10016, $12.00, 243 pages, 1971).

Reviews in Macromolecular Chemistry, Vol. 6, George B. Butler, Kenneth F. O'Driscoll, and Mitchel Shen, eds. (Marcel Dekker, Inc., 95 Madison Ave., New York, NY 10016, $19.50, 490 pages, 1971).

Encyclopedia Reprints, Norbert Bikales, ed. (Wiley-Interscience, a Div. of John Wiley & Sons, Inc., 605 Third Ave., New York, NY 10016, $6.95, each of 5 vols, 1971).

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Surface and Colloid Science, Volume 4, E. Matijevic, ed. (Wiley-Interscience Div., John Wiley & Sons, Inc., 605 Third Ave., New York, NY 10016, $24.95, 445 pages, 1971).

Experimental Methods for Engineers, Second Edition, J. P. Holman (McGraw-Hill Book Co., 330 W. 42nd St., New York, NY 10036, $13.50, 423 pages, 1971).

Macromolecular Reviews, Volume 5, A. Peterlin et al, eds. (Wiley-Interscience Div., John Wiley & Sons, Inc., 605 Third Ave., New York, NY 10016, $19.00 (paper), 597 pages, 1971).

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Polymer Stabilization, W. L. Hawkins, ed. (Wiley-Interscience Div., John Wiley & Sons, Inc., 605 Third Ave., New York, NY 10016, $24.95, 452 pages, 1972).

Handbook of Plastic Test Methods, G. C. Ives, J. A. Mead, & M. M. Riley (CRC Press, 18901 Cranwood Pkwy., Cleveland, OH 44128, $33.90, 476 pages, 1971).

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Epoxide Resins, W. G. Potter (Springer-Verlag New York Inc., 175 Fifth Ave., New York, NY 10010, $13.20, 248 pages, 1971).

Plastisols and Organosols, Harold A. Sarvetnick, ed. (Van Nostrand Reinhold Company, 450 W. 33rd St., New York, NY 10001, $12.00, 238 pages, 1972).

Polymer Symposia (Wiley-Interscience Div., John Wiley & Sons, Inc., 605 Third Ave., New York, NY 10016). Molecular Order—Molecular Motion: Their Response to Macroscopic Stress (No. 32, $12.50, 377 pages, 1971); Polymers at Interfaces (No. 34, $14.00, 310 pages, 1971); Viscoelastic Relaxation in Polymers (No. 35, $10.00, 260 pages, 1971).

Elements of Polymer Degradation, Leo Reich and Salvatore Stivala (McGraw Hill Book Co., 330 W. 42nd St., New York, NY 10036, $18.50, 361 pages, 1971).

Plastics and Rubbers, Edward W. Duck (Philosophical Library, Inc., 15 E. 40th St., New York, NY 10016, $10.00, 110 pages, 1971).

Fluoropolymers, Leo A. Wall, ed. (Wiley-Interscience Div., John Wiley and Sons, Inc., 605 Third Ave., New York, NY 10016, $33.95, 550 pages, 1972).

July, page 54

Reviews in Macromolecular Chemistry, Vol. 7, George B. Butler, Kenneth F. O'Driscoll, and Mitchel Shen, eds. (Marcel Dekker, Inc., 95 Madison Ave., New York, NY 10016, $19.50, 305 pages, 1972).

Reviews in Polymer Technology, Vol. 1, Irving Skeist, ed. (Marcel Dekker, Inc., 95 Madison Ave., New York, NY 10016, $19.50, 247 pages, 1972).

Vinyl and Allied Polymers Vol. 2: Vinyl Chloride and Vinyl Acetate Polymers, George Matthews (CRC Press, 18901 Cranwood Pkwy., Cleveland, OH 44128, $39.90, 401 pages, 1972).

Encyclopedia of Industrial Chemical Analysis, Vol. 13: Fluorine to Glycols; Vol. 14: Gold to Iodine; Vol. 15: Ion Exchange Resins to Mercaptans, Foster Dee Snell and Leslie S. Ettre, eds. (Wiley-Interscience Div., John Wiley & Sons, Inc., 605 Third Ave., New York, NY 10016, $35.00 by subscription, $45.00 single copy, 1971 and 1972).

Urethane Industry Terms (The Martin Sweets Co., Inc., Dept. G, PO Box 1068, Louisville, KY 40201, $12.00, 136 pages).

August, page 248

Infrared Analysis of Polymers, Resins and Additives, an Atlas, Vol. 1, Part 1: Text, Dieter O. Hummel and Friedrich K. Scholl (Wiley-Interscience, a Div. of John Wiley & Sons, Inc., 605 Third Ave., New York, NY 10016, $16.95, 225 pages, 1972).

Calendering of Plastics, R. A. Elden and A. D. Swan (American Elsevier Publishing Co., 52 Vanderbilt Ave., New York, NY 10017, $7.50, 106 pages, 1971).

Mechanical Properties of Solid Polymers, I. M. Ward (Wiley-Interscience, a Div. of John Wiley & Sons, Inc., 605 Third Ave., New York, NY 10016, $19.95, 372 pages, 1972).

Understanding Digital Computers, 2nd Edition, Paul Siegel (John Wiley & Sons, Inc., 605 Third Ave., New York, NY 10016, $11.95, 462 pages, 1971).

September, page 57

Plastics Foams, Part 1, Kurt C. Frisch and James H. Saunders, eds. (Marcel Dekker, Inc., 95 Madison Ave., New York, NY 10016, $36.50, 450 pages, 1972).

Treatise on Coatings, Vol. 1: Film Forming Compositions, Part III, Raymond R. Myers and J. S. Long, eds. (Marcel Dekker, Inc., 95 Madison Ave., New York, NY 10016, $48.75, 578 pages, 1972).